



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

March 26, 2010

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: *M. Humphrey*
Marvelyn Humphrey, ESAT Regional Project Officer
Environmental Services Branch (6MD-H)

TO: Bret Kendrick, Superfund Project Manager (6SF-TR)

Site : CIRCLE COURT GROUND WATER

Case#: 39551

SDG#: MF3FX7

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative.

If you have any questions regarding the data review report, please contact me at (281) 983-2140.

622114

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

Alion Science and Technology

**ESAT Region 6
10625 Fallstone Road
Houston, TX 77099**

MEMORANDUM

DATE: March 26, 2010
TO: Marvely Humphrey, ESAT PO, Region 6 EPA
FROM: Sonya Meekins, Data Reviewer, ESAT
THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT *P6J*
SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	010
Task/Sub-Task:	2-12
ESAT Doc. No.:	8010-212-0178
TDF No.:	6-08-765B
ESAT File No.:	I-0272

Attached is the data review summary for Case # 39551

SDG # MF3FX7
Site Circle Court Ground Water

COMMENTS:

I. LEVEL OF DATA REVIEW

Standard Review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The CCS report and hardcopy review found the data package contractually compliant.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of sample results reviewed for this data package was 456. Some results were qualified for technical problems that were not considered significant.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	39551	SITE	Circle Court Ground Water
LABORATORY	CHEM	NO. OF SAMPLES	19
CONTRACT#	EP-W-08-065	MATRIX	water
SDG#	MF3FX7	REVIEWER (IF NOT ESB)	ESAT
SOW#	ILM05.4	REVIEWER'S NAME	Sonya Meekins
SF#	302DD2CA6V7	COMPLETION DATE	March 26, 2010

SAMPLE NO.	MF3FX7	MF3FY1	MF3FY6	MF3FZ1	MF3FZ6
	MF3FX8	MF3FY2	MF3FY7	MF3FZ2	MF3FZ8
	MF3FX9	MF3FY3	MF3FY8	MF3FZ3	MF3G01
	MF3FY0	MF3FY4	MF3FZ0	MF3FZ5	

DATA ASSESSMENT SUMMARY

	ICP	HG	CN
1. HOLDING TIMES	O	O	O
2. CALIBRATIONS	O	O	O
3. BLANKS	O	O	O
4. MATRIX SPIKES	M	O	O
5. DUPLICATE ANALYSIS	O	O	O
6. ICP QC	M		
7. LCS	O	O	O
8. SAMPLE VERIFICATION	O	O	O
9. OTHER QC	N/A	N/A	N/A
10. OVERALL ASSESSMENT	M	O	O

O = Data had no problems.

M = Data qualified due to major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: The iron pre-digestion matrix spike recovery was below 75 percent. The aluminum serial dilution difference was greater than 10 percent.

**COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW**

CASE 39551 SDG MF3FX7 SITE Circle Court Ground Water LAB CHEM

COMMENTS: This SDG consisted of 19 water samples for total metals (ICP/AES), mercury, and cyanide analyses following SOW ILM05.4. The sampler designated sample MF3FY3 as the laboratory QC sample.

A standard data review was performed on this package as requested by the TDF. Nineteen percent of the results were above the CRQL's. Some results were qualified for all samples because of problems with a pre-digestion matrix spike recovery and a serial dilution difference. ESAT's final data qualifiers in the DST indicate the technical usability of all reported results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

NOTE: THE FOLLOWING REVIEW NARRATIVE ADDRESSES BOTH CONTRACTUAL ISSUES (BASED ON THE STATEMENT OF WORK) AND TECHNICAL ISSUES (BASED ON THE NATIONAL FUNCTIONAL GUIDELINES). THE ASSESSMENT MADE FOR EACH QC PARAMETER IS SOLELY BASED ON THE TECHNICAL DATA USABILITY, WHICH MAY NOT NECESSARILY BE AFFECTED BY CONTRACTUAL PROBLEMS. THE ASSESSMENTS ARE DEFINED BELOW.

Acceptable = No results were qualified for any problem associated with this QC parameter.

Provisional = Some results were qualified because of problems associated with this QC parameter.

Unusable = All results are unusable because of major problems associated with this QC parameter.

1. Holding Times: Acceptable. All samples met contractual and technical holding time criteria. Sample preservation was acceptable.

2. Calibrations: Acceptable. All calibration and CRQL check standard analyses met contractual requirements. The CRQL check standard recoveries indicated acceptable instrument performance near the CRQL's.

3. Blanks: Acceptable. Preparation and calibration blanks met contractual requirements. In the reviewer's opinion, the analyte readings in the ICB and CCB's were attributed to instrument baseline drift and not laboratory contamination. Blank concentrations affected the sample results as indicated below.

Some barium, cadmium, cobalt, lead, magnesium, manganese, nickel, silver, thallium, and vanadium results below the CRQL's should be considered undetected and were flagged "U" at the CRQL's on the DST.

4. Pre-digestion/Pre-distillation Matrix Spike Recovery: Provisional. The iron results were qualified as estimated because the iron pre-digestion matrix spike recovery was below 75 percent. The associated post-digestion matrix spike recovery did not indicate a bias effect.

**INORGANIC QA REVIEW
CONTINUATION PAGE**

CASE 39551 SDG MF3FX7 SITE Circle Court Ground Water LAB CHEM

5. Duplicate Analysis: Acceptable. Laboratory duplicate differences met technical QC criteria.

6. ICP Quality Control:

Serial Dilution: Provisional. The reviewer qualified the aluminum results as estimated because the aluminum serial dilution difference was above the QC limit.

Interference Check Sample (ICS): Acceptable. ICS results were contractually acceptable and indicated satisfactory interelement and background corrections.

Coefficients of Variation: Acceptable. Replicate instrument readings were consistent.

7. Laboratory Control Sample (LCS): Acceptable. The reported LCS results indicated satisfactory sample preparation and analysis.

8. Sample Verification: Acceptable. The data package was complete. The DST included in the report is the final version.

9. Other QC: Not Applicable.

10. Overall Assessment: Some results for all samples were qualified because of problems with a pre-digestion matrix spike recovery and a serial dilution difference.

INORGANIC ACRONYMS

CADRE	Computer-Aided Data Review and Evaluation
CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
TAL	Target Analyte List

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see
Inorganic Data Qualifier Definitions on the next page)
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
SMPDATE: Sampling Date
PRPDATE: Sample Preparation Date
LRDATE: Laboratory Receipt Date
LEVEL: Sample Level
PERSOLD: Sample Percent Solids
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water
Samples)
FINLVOL: Final Sample Volume
METHOD: Method of Analysis
STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U** Not detected at reported quantitation limit.
- L** Reported concentration is between the MDL and the CRQL.
- J** Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.
- R** Result is unusable.
- F** A possibility of a false negative exists.
- UC** Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.
- ^** High biased. Actual concentration may be lower than the concentration reported.
- v** Low biased. Actual concentration may be higher than the concentration reported.
- W** The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRLQ	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWT	FINLVOL	METHOD	STATLOC
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7429905	ALUMINUM	56.0	LJ	UG/L	200	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440360	ANTIMONY	60.0	U	UG/L	60.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440382	ARSENIC	3.9	LJ	UG/L	10.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440393	BARIUM	143	LJ	UG/L	200	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440417	BERYLLIUM	5.0	U	UG/L	5.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440439	CADMIUM	5.0	U	UG/L	5.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440702	CALCIUM	138000	UG/L	5000	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01	
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440473	CHROMIUM	10.0	U	UG/L	10.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440484	COBALT	50.0	U	UG/L	50.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440508	COPPER	25.0	U	UG/L	25.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7439896	IRON	229	J	UG/L	100	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7439921	LEAD	2.7	LJ	UG/L	10.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7439954	MAGNESIUM	8680	UG/L	5000	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01	
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7439965	MANGANESE	35.0	UG/L	15.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01	
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	14:08	7439976	MERCURY	0.20	U	UG/L	0.20	03/09/2010	03/15/2010	03/10/2010	LOW	0.0	100	100	CV	
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440020	NICKEL	0.85	LJ	UG/L	40.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440097	POTASSIUM	1090	LJ	UG/L	5000	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7782492	SELENIUM	35.0	U	UG/L	35.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440224	SILVER	10.0	U	UG/L	10.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440235	SODIUM	14400	UG/L	5000	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01	
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440280	THALLIUM	25.0	U	UG/L	25.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440622	VANADIUM	50.0	U	UG/L	50.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01
39551	MF3FX7	MF3FX7	B1560-01	W		03/15/2010	11:27	7440666	ZINC	114	UG/L	60.0	03/09/2010	03/10/2010	03/10/2010	LOW	0.0	50	50	P	GW-01	
39551	MF3FX7	MF3FX7	B1560-01	W		03/11/2010	16:27	7440177	CYANIDE	10.0	U	UG/L	10.0	03/09/2010	03/11/2010	03/10/2010	LOW	0.0	50	50	AS	GW-01
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7429905	ALUMINUM	200	UJ	UG/L	200	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440360	ANTIMONY	60.0	U	UG/L	60.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440382	ARSENIC	3.2	LJ	UG/L	10.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440393	BARIUM	107	LJ	UG/L	200	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440417	BERYLLIUM	5.0	U	UG/L	5.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440439	CADMIDIUM	5.0	U	UG/L	5.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440702	CALCIUM	79800	UG/L	5000	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02	
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440473	CHROMIUM	10.0	U	UG/L	10.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440484	COBALT	50.0	U	UG/L	50.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440508	COPPER	10.7	LJ	UG/L	25.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7439896	IRON	105	J	UG/L	100	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7439921	LEAD	12.5	UG/L	10.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02	
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7439954	MAGNESIUM	14100	UG/L	5000	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02	
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7439965	MANGANESE	45.8	UG/L	15.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02	
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	14:31	7439976	MERCURY	0.20	U	UG/L	0.20	03/10/2010	03/15/2010	03/11/2010	LOW	0.0	100	100	CV	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440020	NICKEL	40.0	U	UG/L	40.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440097	POTASSIUM	1240	LJ	UG/L	5000	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7782492	SELENIUM	35.0	U	UG/L	35.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440224	SILVER	10.0	U	UG/L	10.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440235	SODIUM	17300	UG/L	5000	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02	
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440280	THALLIUM	25.0	U	UG/L	25.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440622	VANADIUM	50.0	U	UG/L	50.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/15/2010	12:00	7440666	ZINC	10.2	LJ	UG/L	60.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-02
39551	MF3FX7	MF3FX8	B1560-10	W		03/11/2010	16:39	7440177	CYANIDE	10.0	U	UG/L	10.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	AS	GW-02
39551	MF3FX7	MF3FX9	B1560-11	W		03/15/2010	12:02	7429905	ALUMINUM	200	UJ	UG/L	200	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-03
39551	MF3FX7	MF3FX9	B1560-11	W		03/15/2010	12:02	7440360	ANTIMONY	60.0	U	UG/L	60.0	03/10/2010	03/11/2010	03/11/2010	LOW	0.0	50	50	P	GW-03
39551	MF3FX7	MF3FX9	B1560-11	W																		

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No.	39551	SDG No.	MF3FX7	SDG Nos. To Follow	Mod. Ref. No.	Date Rec	03/18/10	
EPA Lab ID:	CHEM			ORIGINALS		YES	NO	N/A
Lab location:	Mountainside, NJ			CUSTODY SEALS				
Region:	6	Audit No.:	39551/MF3FX7			1. Present on package?	X	
Resubmitted CSF?	Yes	No	X	2. Intact upon receipt?		X		
Box No(s):	1			FORM DC-2				
COMMENTS:				3. Numbering scheme accurate?		X		
				4. Are enclosed documents listed?		X		
				5. Are listed documents enclosed?		X		
Other On Form DC2-2, the laboratory reported the number of shipments was 1. However, the samples were received on 3 different days. The auditor change the number of shipments entry to 3.				FORM DC-1				
				6. Present?		X		
				7. Complete?		X		
				8. Accurate?		X		
				TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)				
				9. Signed?		X		
				10. Dated?		X		
				AIRBILLS/AIRBILL STICKER				
				11. Present?		X		
				12. Signed?		X		
				13. Dated?		X		
				SAMPLE TAGS				
				14. Does DC-1 list tags as being included?		X		
				15. Present?		X		
				OTHER DOCUMENTS				
				16. Complete?		X		
				17. Legible?		X		
				18. Original?		X		
				18a. If "NO", does the copy indicate where original documents are located?				X
Over for additional comments.								

Audited

Audited

Signature

Sonya Meekins/ESAT Data Reviewer

Date 03/24/10

Date

Printed Name/Title

DC-2



USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	39551
DAS No:	MF3FX7
SDG No:	L
For Lab Use Only	
Lab Contract No:	EPW08065
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Date Shipped: 3/9/2010
Carrier Name: FedEx
Airbill: 871760241174
Shipped to: ChemTech Consulting Group
284 Sheffield Street
Mountainside NJ 07092
(908) 789-8900

Chain of Custody Record		Sampler Signature:	
Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	3/9/10 16:40	Ken Rivera	3/10/10 9:05
2			
3			
4			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MF3FX7	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487454 (NaOH), 6-487461 (HNO3) (2)	GW-01	S: 3/9/2010 9:12	F3FX7	
MF3FY1	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487498 (NaOH), 6-487656 (HNO3) (2)	GW-05	S: 3/9/2010 15:32	F3FY1	
MF3FY2	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487660 (NaOH), 6-487667 (HNO3) (2)	GW-06	S: 3/9/2010 11:29	F3FY2	
MF3FY3	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487671 (NaOH), 6-487672 (NaOH), 6-487691 (HNO3), 6-487692 (HNO3) (4)	GW-07	S: 3/9/2010 10:10	F3FY3	
MF3FY4	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487702 (NaOH), 6-487709 (HNO3) (2)	GW-08	S: 3/9/2010 10:30	F3FY4	
MF3FZ0	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487760 (NaOH), 6-487767 (HNO3) (2)	GW-14	S: 3/9/2010 12:14	F3FZ0	
MF3FZ1	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487771 (NaOH), 6-487778 (HNO3) (2)	GW-15	S: 3/9/2010 14:43	F3FZ1	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MF3FY3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: N/A
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Yes	Shipment Iced? Yes
CN = CLP Cyanide, TM/HG = CLP TCL Total Metals/Mercury				

TR Number: 6-043013577-030910-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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703/818-4600

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	39551
DAS No:	MF 3FX7
SDG No:	L
For Lab Use Only	
Lab Contract No:	EPW08065
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Date Shipped: 3/10/2010
Carrier Name: FedEx
Airbill: 871760241141
Shipped to: ChemTech Consulting Group
284 Sheffield Street
Mountainside NJ 07092
(908) 789-8900

Chain of Custody Record		Sampler Signature: <i>Gary Hazelwood</i>	
Relinquished By	(Date / Time)	Received By	(Date / Time)
1 <i>Gary Hazelwood 03/10/10 1740</i>		Ken Rivera	3/11/10 9:20
2			
3			
4			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MF3FX8	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487465 (NaOH), 6-487472 (HNO3) (2)	GW-02	S: 3/10/2010 9:48	F3FX8	
MF3FX9	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487476 (NaOH), 6-487483 (HNO3) (2)	GW-03	S: 3/10/2010 10:35	F3FX9	
MF3FY6	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487716 (NaOH), 6-487723 (HNO3) (2)	GW-10	S: 3/10/2010 12:45	F3FY6	
MF3FY7	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487727 (NaOH), 6-487734 (HNO3) (2)	GW-11	S: 3/10/2010 13:22	F3FY7	
MF3FZ2	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487782 (NaOH), 6-487789 (HNO3) (2)	GW-16	S: 3/10/2010 15:00	F3FZ2	
MF3FZ3	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487793 (NaOH), 6-487800 (HNO3) (2)	GW-17	S: 3/10/2010 15:35	F3FZ3	
MF3FZ5	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487807 (NaOH), 6-487814 (HNO3) (2)	GW-19	S: 3/10/2010 11:40	F3FZ5	
MF3FZ6	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487818 (NaOH), 6-487825 (HNO3) (2)	GW-20	S: 3/10/2010 16:20	F3FZ6	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: <i>3°C</i>	Chain of Custody Seal Number: <i>N/A</i>
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/> YES	Shipment Iced? <input checked="" type="checkbox"/> YES
CN = CLP Cyanide, TM/HG = CLP TCL Total Metals/Mercury				

TR Number: 6-043013577-031010-0006

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	39551
DAS No:	MF3FY7
SDG No:	
For Lab Use Only	
Lab Contract No:	EPW08065
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Date Shipped: 3/11/2010
 Carrier Name: FedEx
 Airbill: 870536934142
 Shipped to: ChemTech Consulting Group
 284 Sheffield Street
 Mountainside NJ 07042
 (908) 789-8900

Chain of Custody Record		Sampler Signature:	
Relinquished By	(Date / Time)	Received By	(Date / Time)
1 <i>Gary Hazelwood</i>	3/11/10 15:39	<i>Ken Rivera</i>	3/12/10 9:15
2			
3			
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INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MF3FY0	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487487 (NaOH), 6-487494 (HNO3) (2)	GW-04	S: 3/11/2010 8:00	F3FY0	
MF3FY8	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487738 (NaOH), 6-487745 (HNO3) (2)	GW-12	S: 3/11/2010 11:14	F3FY8	
MF3FZ8	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487840 (NaOH), 6-487847 (HNO3) (2)	GW-22	S: 3/11/2010 10:04	F3FZ8	
MF3G01	Ground Water/ Gary Hazelwood	L/G	CN (7), TM/HG (7)	6-487893 (NaOH), 6-487900 (HNO3) (2)	GW-25	S: 3/11/2010 8:40	F3G01	

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Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°C	Chain of Custody Seal Number: N/A
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>
CN = CLP Cyanide, TM/HG = CLP TCL Total Metals/Mercury				

TR Number: 6-043013577-031110-0003

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